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**UTILITY PATENT APPLICATION TRANSMITTAL
(Large Entity)***(Only for new nonprovisional applications under 37 CFR 1.53(b))*Docket No.
30921-CIP1Total Pages in this Submission
101**TO THE ASSISTANT COMMISSIONER FOR PATENTS**Box Patent Application
Washington, D.C. 20231

Transmitted herewith for filing under 35 U.S.C. 111(a) and 37 C.F.R. 1.53(b) is a new utility patent application for an invention entitled:

IDENTIFICATION AND APPLICATIONS OF PORCINE REPRODUCTIVE AND RESPIRATORY SYNDROME VIRUS HOST SUSCEPTIBILITY FACTOR(S) FOR IMPROVED SWINE BREEDING AND DEVELOPMENT OF NON-SIMIEN RECOMBINANT CELL LINE FOR PROPAGATION OF THE VIRUS AND A TARGET FOR A NOVEL CLASS OF ANTIVIRAL COMPOUNDS

and invented by:

SANJAY KAPIL and KUMAR SHANMUKHAPPAIf a **CONTINUATION APPLICATION**, check appropriate box and supply the requisite information:☐ Continuation ☐ Divisional ☒ Continuation-in-part (CIP) of prior application No.: 09/772,044

Which is a:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: _____

Which is a:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: _____

Enclosed are:

Application Elements

1. ☒ Filing fee as calculated and transmitted as described below
2. ☒ Specification having 65 pages and including the following:
 - a. ☒ Descriptive Title of the Invention
 - b. ☒ Cross References to Related Applications *(if applicable)*
 - c. ☐ Statement Regarding Federally-sponsored Research/Development *(if applicable)*
 - d. ☐ Reference to Microfiche Appendix *(if applicable)*
 - e. ☒ Background of the Invention
 - f. ☒ Brief Summary of the Invention
 - g. ☒ Brief Description of the Drawings *(if drawings filed)*
 - h. ☒ Detailed Description
 - i. ☒ Claim(s) as Classified Below
 - j. ☒ Abstract of the Disclosure

01/28/02



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Total Pages in this Submission
101

Application Elements (Continued)

3. ☒ Drawing(s) (when necessary as prescribed by 35 USC 113)
- a. ☐ Formal Number of Sheets _____
- b. ☒ Informal Number of Sheets 13
4. ☐ Oath or Declaration
- a. ☐ Newly executed (original or copy) ☐ Unexecuted
- b. ☐ Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional application only)
- c. ☐ With Power of Attorney ☐ Without Power of Attorney
- d. ☐ DELETION OF INVENTOR(S)
Signed statement attached deleting inventor(s) named in the prior application,
see 37 C.F.R. 1.63(d)(2) and 1.33(b).
5. ☐ Incorporation By Reference (usable if Box 4b is checked)
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.
6. ☐ Computer Program in Microfiche (Appendix)
7. ☒ Nucleotide and/or Amino Acid Sequence Submission (if applicable, all must be included)
- a. ☒ Paper Copy
- b. ☒ Computer Readable Copy (identical to computer copy)
- c. ☒ Statement Verifying Identical Paper and Computer Readable Copy

Accompanying Application Parts

8. ☐ Assignment Papers (cover sheet & document(s))
9. ☐ 37 CFR 3.73(B) Statement (when there is an assignee)
10. ☐ English Translation Document (if applicable)
11. ☐ Information Disclosure Statement/PTO-1449 ☐ Copies of IDS Citations
12. ☐ Preliminary Amendment
13. ☒ Acknowledgment postcard
14. ☒ Certificate of Mailing
- ☐ First Class ☒ Express Mail (Specify Label No.): EV069013485US.

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30921-CIP1Total Pages in this Submission
101**Accompanying Application Parts (Continued)**

15. ☐ Certified Copy of Priority Document(s) *(if foreign priority is claimed)*
16. ☐ Additional Enclosures *(please identify below):*

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Request That Application Not Be Published Pursuant To 35 U.S.C. 122(b)(2)

17. ☐ Pursuant to 35 U.S.C. 122(b)(2), Applicant hereby requests that this patent application not be published pursuant to 35 U.S.C. 122(b)(1). Applicant hereby certifies that the invention disclosed in this application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication of applications 18 months after filing of the application.

Warning

An applicant who makes a request not to publish, but who subsequently files in a foreign country or under a multilateral international agreement specified in 35 U.S.C. 122(b)(2)(B)(i), must notify the Director of such filing not later than 45 days after the date of the filing of such foreign or international application. A failure of the applicant to provide such notice within the prescribed period shall result in the application being regarded as abandoned, unless it is shown to the satisfaction of the Director that the delay in submitting the notice was unintentional.

CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)

Applicant(s): KAPIL, SANJAY et al.

Docket No.
30921-CIP

Serial No.

Filing Date

Examiner

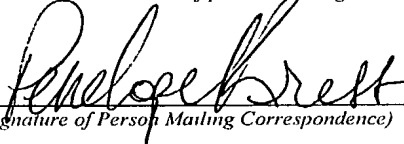
Group Art Unit

Invention: IDENTIFICATION AND APPLICATIONS OF PORCINE REPRODUCTIVE AND RESPIRATORY SYNDROME VIRUS HOST SUSCEPTIBILITY FACTOR(S) FOR IMPROVED SWINE BREEDING AND DEVELOPMENT OF NON-SIMIEN RECOMBINANT CELL LINE FOR PROPAGATION OF THE VIRUS AND A TARGET FOR A NOVEL CLASS OF ANTIVIRAL COMPOUNDS

I hereby certify that this Express Mail Certification; Patent Transmittal Letter (Large Entity); Application for U.S. Letters Patent including specification, claims and abstract page (65 pgs); 13 sheets of informal drawings; \$5,048.00 Filing Fee; Sequence Listing (16 pages); Rule 1.821(f) Statement; Transmittal of CDs; Copy 1 and Copy 2 of CDs are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: The Assistant Commissioner for Patents, Washington, D.C. 20231 on January 28, 2002.

Penelope Kress

(Typed or Printed Name of person Mailing Correspondence)



(Signature of Person Mailing Correspondence)

EV069013485US

("Express Mail" Mailing Label Number)

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SEO



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of:

KAPIL, SANJAY et al.

Serial No. :

Filed:

IDENTIFICATION AND APPLICATIONS
OF PORCINE REPRODUCTIVE AND
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HOST SUSCEPTIBILITY FACTOR(S) FOR
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DEVELOPMENT OF NON-SIMIAN
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ANTIVIRAL COMPOUNDS

Docket No. 30921-CIP1

Group Art Unit No.

Examiner:

Assistant Commissioner of Patents
Washington, D.C. 20231

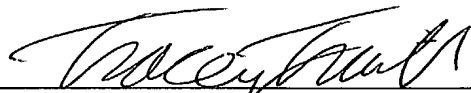
Sir:

STATEMENT

Rule 1.821(f) requires a Statement to the effect that the contents of the Sequence Listing and the Computer Readable Form are the same. Such is the case for the Sequence Listing and the Computer Readable Form that accompany this Statement.

Respectfully submitted,

By



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ATTORNEYS FOR APPLICANT(S)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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KAPIL, SANJAY et al.

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Sir:

TRANSMITTAL LETTER

Transmitted herewith are two CD-Rs ("compact disks-write once") labeled and hereafter referred to as Copy 1 and Copy 2.

Copy 1 and Copy 2 each contain an identical copy of a computer program listing appendix associated with and incorporated by reference into the above-identified non-provisional utility application. The machine format of each CD-R is IBM-PC; and the operating system compatibility is MS-Windows.


Serial No.

Docket No. 30921-CIP

Copy 1 and Copy 2 each contain identical copies of the following ASCII files:

Filename	Size (Bytes)	Date of Creation
30921CIP.ST25.TXT	18 kb	January 28, 2002

Respectfully submitted,

By 
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